Whirlpool

# Service Manual

## Side by Side
## ARZ 730/W

**Model** ARZ 730/W
**Version** 8586 730 01000


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This documentation is only intended for qualified technicians who are aware of the respective safety regulations.

Date: 29.10.2001
Subject to modification
Document-No.: 4812 721 19277

# Technical data

## Dimensions

| | | |
|---|---|---|
| Height | 167.0 | cm |
| Width | 83.0 | cm |
| Depth | 74.0 | cm |

## Capacity

| | | |
|---|---|---|
| **Total** | | |
| gross | 558 | l |
| net | 514 | l |
| **Cooling** | | |
| gross | 381 | l |
| net | 364 | l |
| **Freezing** | | |
| gross | 177 | l |
| net | 150 | l |

## Electrical connection

| | | |
|---|---|---|
| Voltage | 220 - 240 | V |
| Frequency | 50 | Hz |

## Power consumption

| | | |
|---|---|---|
| in 24 hours | 1.84 | kWh |

## Freezing capacity

| | | |
|---|---|---|
| in 24 hours | 8 | kg |

## Compressor

| | | |
|---|---|---|
| Type | EGU 90 | |
| Capacity (CECOMAF) | 148 | W |

## Refrigerant

| | | |
|---|---|---|
| Type | R 134 a | |
| Quantity | 156 | g |

## Thermostat switching value (cooling)

| | | |
|---|---|---|
| Switch on temperature min. | + 5.5 | ˚C |
| Switch on temperature max. | - 1.3 | ˚C |
| Switch off temperature min. | - 2.7 | ˚C |
| Switch off temperature max. | - 11.0 | ˚C |

## Thermostat switching value (freezing)

| | | |
|---|---|---|
| Switch on temperature min. | - 14.3 | ˚C |
| Switch on temperature max. | - 20.4 | ˚C |
| Switch off temperature min. | - 19.8 | ˚C |
| Switch off temperature max. | - 27.3 | ˚C |

## Capacity (ice cube machine)

| | | |
|---|---|---|
| in 24 hours | 2.3 | kg |

# Spare part list

**Model** **ARZ 730/W**
**Service No.** **858673001000**
**Version** **858673001000**

| Pos. No. | 12NC Code | Description |
|---|---|---|
| 012 0 | **4819 528 78059** | Roller, front |
| 012 1 | **4812 528 78047** | Roller, rear |
| 021 0 | **4812 440 69194** | Cover |
| 040 0 | **4812 417 18948** | Hinge, upper |
| 040 1 | **4812 417 78055** | Cover, hinge |
| 040 3 | **4812 417 18946** | Hinge |
| 040 4 | **4812 417 19035** | Hinge, bottom |
| 040 5 | **4812 417 78056** | Cover ,hinge |
| 047 0 | **4819 021 82178** | Bracket |
| 047 1 | **4812 404 18298** | Bracket |
| 047 3 | **4812 532 48035** | Bracket |
| 047 8 | **4819 528 38428** | Cam |
| 070 0 | **4812 462 28049** | Grid,air |
| 070 1 | **4819 021 82147** | Grid,air |
| 101 0 | **4812 416 18501** | Door, freezer |
| 102 4 | **4812 440 19696** | Door, small |
| 104 0 | **4812 416 18499** | Door, refriger. |
| 111 0 | **4819 498 78448** | Handle |
| 111 1 | **4812 498 78094** | Clip, fix |
| 130 0 | **4812 440 69075** | Door |
| 130 1 | **4819 021 80210** | Pin |
| 130 2 | **4819 021 80223** | Delay |
| 130 3 | **4812 418 88043** | Strain relief |
| 131 0 | **4819 535 98659** | Lever |
| 131 1 | **4819 535 98658** | Lever |
| 131 2 | **4819 021 94719** | Rail |
| 131 3 | **4819 021 80224** | Container |
| 152 1 | **4819 442 78124** | Door, small |
| 152 2 | **4819 462 38578** | Holder |
| 152 3 | **4819 418 79273** | Door, dairy |
| 152 4 | **4812 452 98197** | Door, dairy |
| 152 5 | **4812 452 98196** | Trim |
| 152 6 | **4819 418 79272** | Flap |
| 152 7 | **4812 418 28307** | Door, dairy |
| 152 8 | **4812 418 28308** | Door, dairy |
| 156 0 | **4819 418 79054** | Rack, egg |
| 156 2 | **4812 418 28283** | Holder, eggs |
| 170 0 | **4812 460 49266** | Trim |
| 170 1 | **4812 460 48972** | Trim |
| 191 0 | **4812 466 88627** | Magnetic seal |
| 191 1 | **4812 466 88626** | Magnetic seal |
| 201 0 | **4812 440 69142** | Cover, unit |
| 201 2 | **4819 021 82414** | Cover |
| 232 0 | **4819 021 69938** | Arm |
| 232 1 | **4819 492 68533** | Clip, fix |
| 232 2 | **4819 460 88761** | Tube,stabilizer |
| 233 0 | **4819 466 89024** | Guide |
| 233 2 | **4812 404 48697** | Stud |
| 233 4 | **4819 535 98368** | Shaft |
| 239 0 | **4819 466 98562** | Ejector |
| 239 1 | **4819 418 78844** | Tray |
| 239 2 | **4819 021 82124** | Tool, puller |
| 239 3 | **4819 690 28168** | Heating element |
| 239 4 | **4819 460 88787** | Arm |
| 239 5 | **4819 021 96090** | Container |

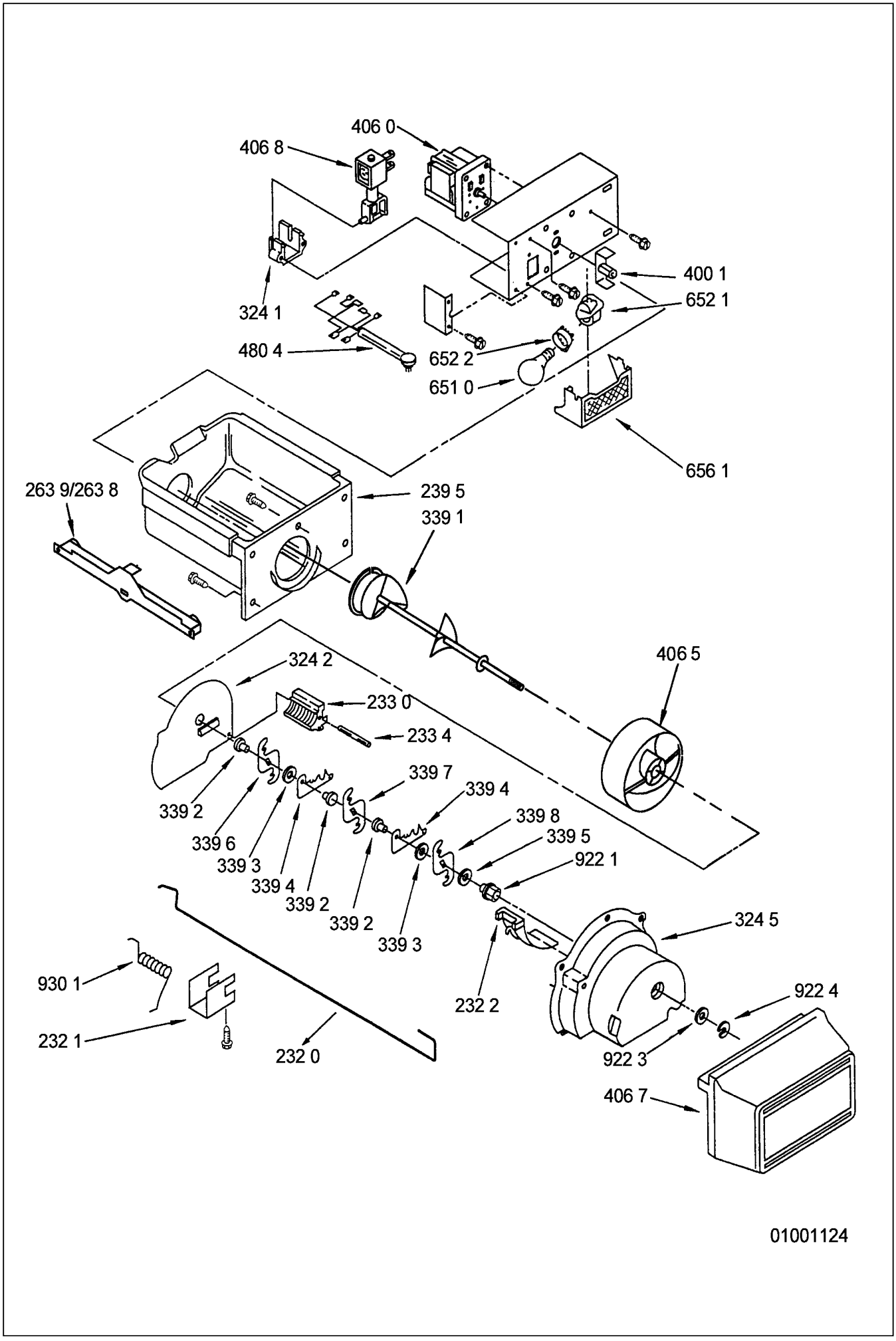
| Pos. No. | 12NC Code | Description |
|---|---|---|
| 242 0 | **4812 418 18371** | Drawer |
| 242 1 | **4812 418 18372** | Drawer |
| 242 2 | **4819 418 79269** | Crisper |
| 244 0 | **4819 458 68023** | Grid |
| 244 1 | **4819 021 74270** | Grid |
| 246 0 | **4812 440 79012** | Tray, leak |
| 246 1 | **4819 418 79352** | Compartment |
| 249 1 | **4819 021 94913** | Trim, handle |
| 249 2 | **4819 021 94906** | Trim, handle |
| 249 3 | **4812 460 48962** | Trim, handle |
| 255 0 | **4819 021 94982** | Crisper cover |
| 255 1 | **4819 450 69971** | Glass shelf |
| 255 2 | **4812 450 88057** | Crisper |
| 255 3 | **4812 450 88058** | Shelf plate |
| 255 4 | **4819 450 69969** | Glass shelf |
| 256 0 | **4819 462 38779** | Slide |
| 256 1 | **4819 466 98997** | Housing |
| 261 2 | **4812 460 48961** | Batten |
| 263 2 | **4812 462 38081** | Guide |
| 263 3 | **4812 404 48702** | Stud |
| 263 4 | **4812 404 48701** | Stud |
| 263 5 | **4819 462 38778** | Slide |
| 263 6 | **4819 021 94744** | Nozzle, crevize |
| 263 7 | **4819 462 38602** | Slide left |
| 263 8 | **4819 462 38576** | Slide friction bearing |
| 263 9 | **4819 462 38577** | Slide |
| 301 0 | **4812 440 78924** | Elect.parts box |
| 304 0 | **4819 021 83771** | Bracket |
| 320 0 | **4819 452 99551** | Insert |
| 324 0 | **4812 404 48668** | Connector |
| 324 1 | **4819 462 38648** | Guide |
| 324 2 | **4819 466 38026** | Flap |
| 324 5 | **4819 466 99099** | Housing |
| 331 1 | **4819 462 79332** | Shutter |
| 339 1 | **4819 021 81957** | Conveyor |
| 339 2 | **4819 535 98367** | Spacer |
| 339 3 | **4819 532 28201** | Connection cl. |
| 339 4 | **4819 395 78017** | Knife |
| 339 5 | **4819 532 28202** | Connection cl. |
| 339 6 | **4819 395 78014** | Cutter |
| 339 7 | **4819 395 78015** | Cutter |
| 339 8 | **4819 395 78016** | Cutter |
| 400 0 | **4812 361 38031** | Motor |
| 400 1 | **4812 256 98032** | Coupling |
| 402 0 | **4819 360 38573** | Compressor EGU 100 |
| 402 4 | **4819 530 58063** | Shaft seal |
| 406 0 | **4812 361 38034** | Motor |
| 406 1 | **4812 418 28027** | Support |
| 406 2 | **4819 462 79839** | Cover |
| 406 5 | **4812 418 18317** | Drum |
| 406 7 | **4819 442 78125** | Cover |
| 406 8 | **4819 281 28237** | Solenoid |
| 406 9 | **4812 282 58007** | Module |
| 420 0 | **4812 120 28007** | Capacitor |
| 420 1 | **4819 532 68503** | Bearing bushing |

# Spare part list

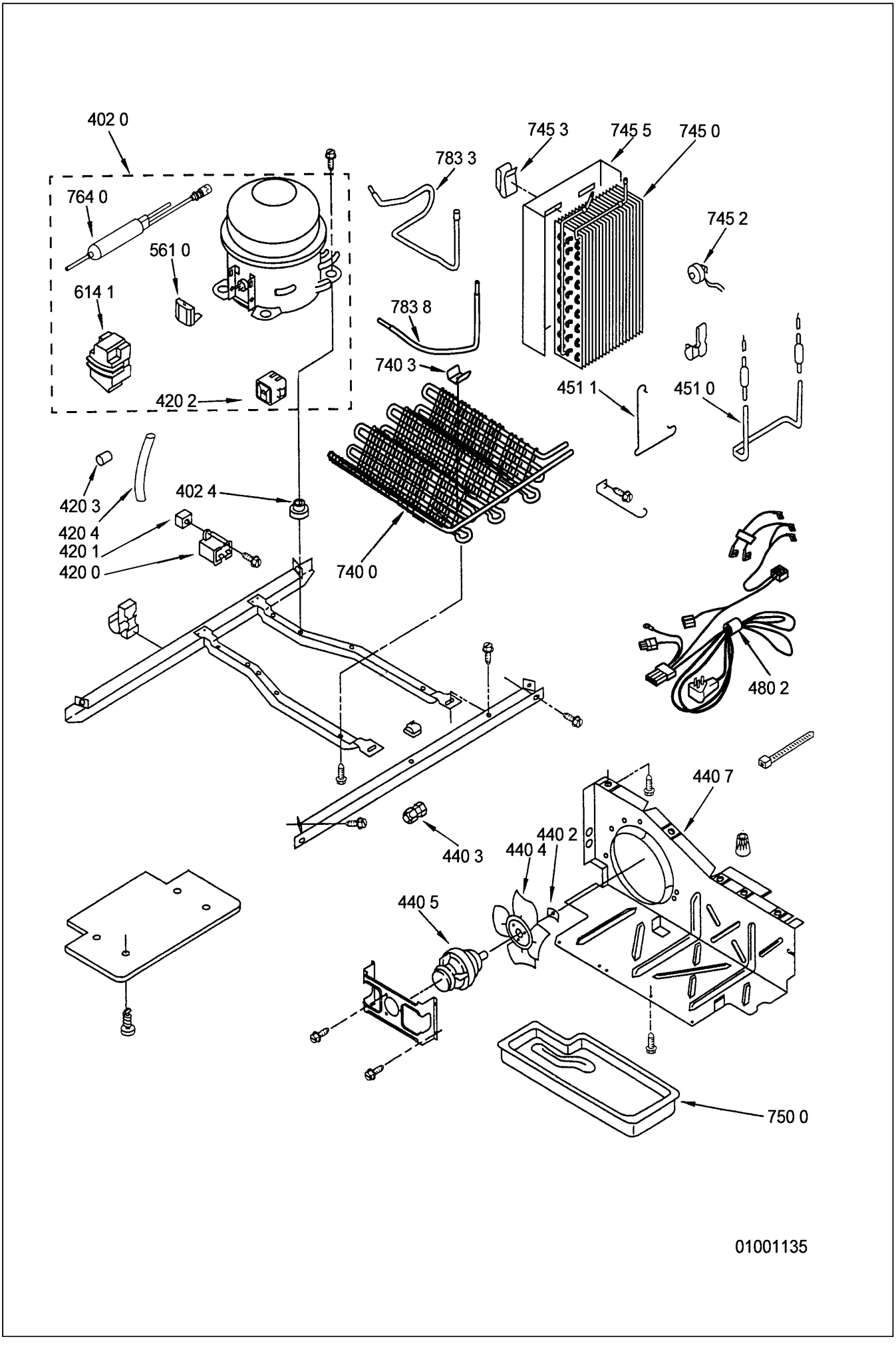
**Model** **ARZ 730/W**
**Service No.** **858673001000**
**Version** **858673001000**

| Pos. No. | 12NC Code | Description |
|---|---|---|
| 420 2 | **4812 120 78001** | Starter |
| 420 3 | **4819 021 58826** | Damper |
| 420 4 | **4812 442 29019** | Cover |
| 440 2 | **4819 466 98547** | Fastener |
| 440 3 | **4812 535 48013** | Fitting |
| 440 4 | **4819 515 28269** | Fan wheel |
| 440 5 | **4812 361 38024** | Motor, fan |
| 440 7 | **4812 440 28961** | Cabinet |
| 441 0 | **4812 361 18281** | Motor, fan |
| 441 1 | **4819 532 68772** | Shaft seal |
| 441 2 | **4819 515 48057** | Fan blade |
| 441 3 | **4819 466 69949** | Gasket |
| 441 4 | **4819 404 78682** | Bracket |
| 451 0 | **4819 021 88176** | Element defrost |
| 451 1 | **4819 401 18692** | Clamp |
| 480 2 | **4812 320 58107** | Cable harness |
| 480 3 | **4812 320 58091** | Cable harness |
| 480 4 | **4812 320 28006** | Cable |
| 480 6 | **4812 320 58051** | Cable harness |
| 480 7 | **4812 320 58105** | Cable harness |
| 483 0 | **4819 320 58174** | Cable |
| 483 1 | **4812 320 58106** | Cable harness |
| 532 0 | **4812 282 18669** | Timer |
| 554 0 | **4819 271 28934** | Thermostat refrigeration |
| 556 0 | **4819 271 28659** | Thermostat ice maker |
| 556 1 | **4819 404 78135** | Hook |
| 556 2 | **4812 282 38036** | Thermostat |
| 556 3 | **4819 462 38783** | Rail |
| 561 0 | **4812 282 98004** | PTC-Unit |
| 614 1 | **4812 440 78951** | Cover |
| 621 0 | **4819 271 38044** | Microswitch |
| 621 1 | **4819 466 98854** | Spacer microswitch |
| 633 0 | **4819 276 18157** | Switch ,door |
| 651 0 | **4819 134 88156** | Lamp |
| 651 2 | **4819 134 88163** | Lamp |
| 652 0 | **4819 532 18188** | Base, lamp |
| 652 1 | **4819 255 18167** | Holder, lamp |
| 652 2 | **4819 021 75210** | Lampholder |
| 652 4 | **4819 021 80200** | Holder, lamp |
| 652 5 | **4819 466 89285** | Guard |
| 655 0 | **4819 276 18241** | Microswitch, light |
| 655 2 | **4819 442 78119** | Flap |
| 656 1 | **4819 381 18219** | Cover f. lamp |
| 700 0 | **4819 530 28752** | Hose |
| 702 0 | **4812 548 28016** | Fitting |
| 711 1 | **4812 530 28999** | Reservoir |
| 726 1 | **4819 462 79632** | Cover |
| 740 0 | **4812 511 48269** | Condenser |
| 740 3 | **4812 404 78474** | Clip |
| 741 0 | **4819 021 82119** | Housing |
| 741 1 | **4812 440 68962** | Support, left + right |
| 743 0 | **4812 445 28009** | Air diffuser |
| 743 1 | **4812 418 68254** | Cover, air diffuser |
| 745 0 | **4819 511 38606** | Evaporator |
| 745 1 | **4812 440 68961** | Air guide |
| 745 2 | **4812 282 38037** | Thermostat , Bi-metal |
| 745 3 | **4819 492 68684** | Clip |
| 745 5 | **4812 466 38019** | Plate, protect. |
| 746 1 | **4819 418 78925** | Distributor |
| 746 3 | **4812 440 88917** | Gasket |
| 746 4 | **4819 458 58351** | Air diffuser |
| 746 5 | **4819 021 82146** | Drain strip |
| 746 6 | **4812 440 69067** | Gasket |
| 746 7 | **4812 440 69068** | Gasket |
| 750 0 | **4819 418 78471** | Tray |
| 764 0 | **4819 480 28149** | Dryer |
| 781 0 | **4819 530 28748** | Hose |
| 781 1 | **4819 530 28913** | Spout |
| 783 0 | **4819 021 96035** | Tube |
| 783 2 | **4812 530 29172** | Tube |
| 783 3 | **4812 360 68188** | Tube |
| 783 4 | **4812 360 58167** | Valve |
| 783 5 | **4819 021 96003** | Hose |
| 783 8 | **4812 530 29143** | Tube |
| 900 0 | **4819 492 68639** | Clip,fix |
| 900 1 | **4819 532 68775** | Ring |
| 900 2 | **4819 134 98001** | Lens |
| 900 3 | **4819 134 98002** | Lens |
| 900 4 | **4819 492 69522** | Clip |
| 900 5 | **4819 401 18516** | Fastener |
| 900 6 | **4819 535 18116** | Bracket |
| 900 7 | **4819 492 68544** | Clip,fix |
| 900 9 | **4819 492 68548** | Clamping piece |
| 904 0 | **4812 466 88584** | Shim |
| 904 3 | **4819 021 76134** | Stopper |
| 904 6 | **4812 401 18486** | Bracket |
| 910 1 | **4812 592 38024** | Screw |
| 910 3 | **4819 004 89483** | Screw |
| 910 4 | **4819 104 89497** | Screw |
| 910 5 | **4812 560 18033** | Screw |
| 910 6 | **4812 560 18031** | Screw |
| 910 7 | **4812 592 38025** | Screw |
| 910 8 | **4819 004 89427** | Screw |
| 910 8 | **4819 004 89456** | Screw |
| 911 5 | **4819 004 89491** | Screw |
| 911 7 | **4819 505 18256** | Nut |
| 911 8 | **4819 505 18249** | Nut |
| 912 1 | **4819 004 89478** | Screw |
| 912 6 | **4819 502 18294** | Screw |
| 912 9 | **4819 034 00852** | Screw |
| 922 1 | **4819 505 18259** | Nut |
| 922 3 | **4819 532 28203** | Connection cl. |
| 922 4 | **4819 532 68496** | Ring, circlip |
| 930 0 | **4819 021 80209** | Spring |
| 930 1 | **4819 492 68532** | Spring |
| 962 1 | **4819 462 79619** | Exit |
| 965 1 | **4819 459 48725** | Frame |
| 965 2 | **4819 459 48724** | Frame |
| 965 3 | **4812 440 28896** | Cover |
| 965 5 | **4812 440 38829** | Bracket |

## Exploded view



## Exploded view



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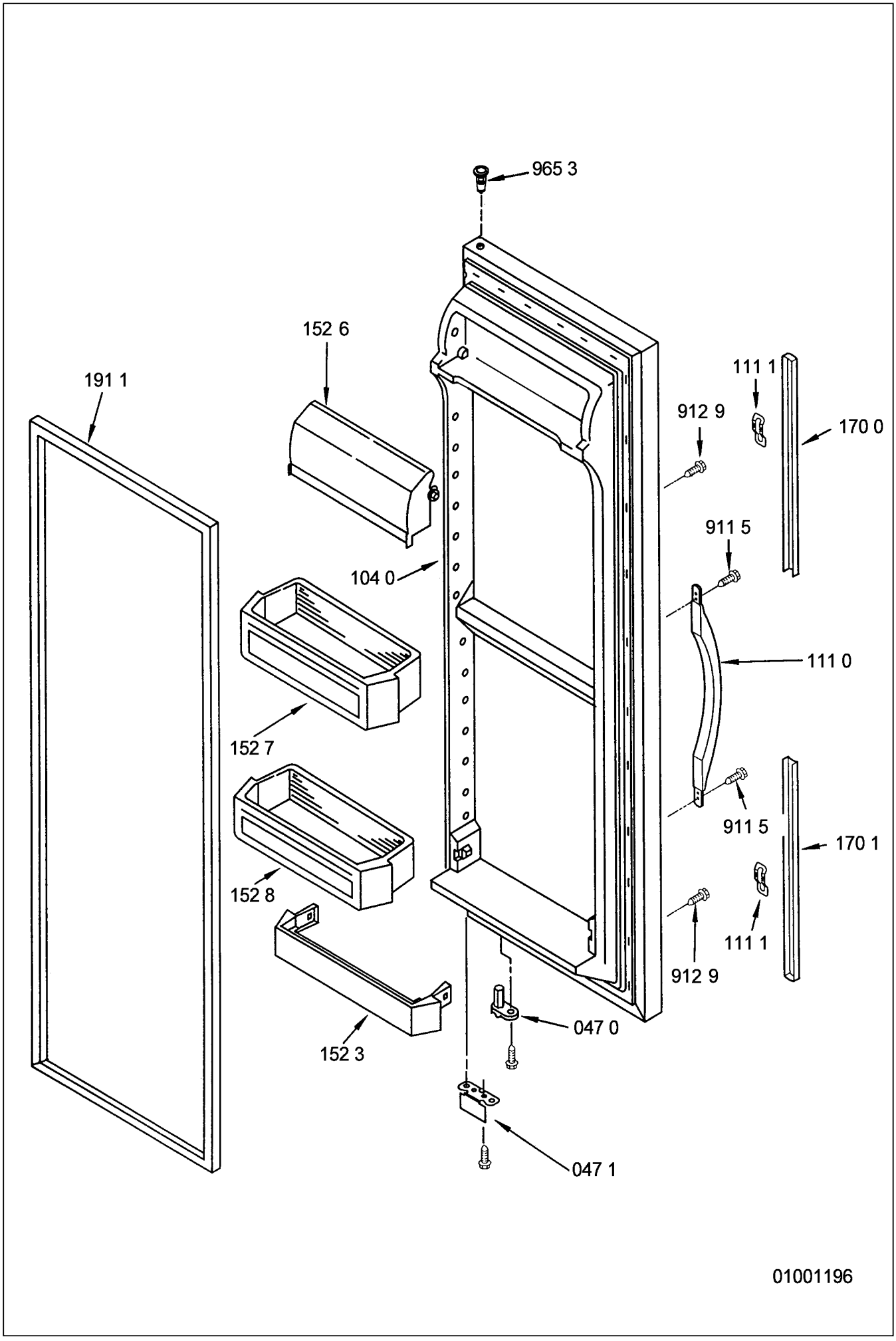

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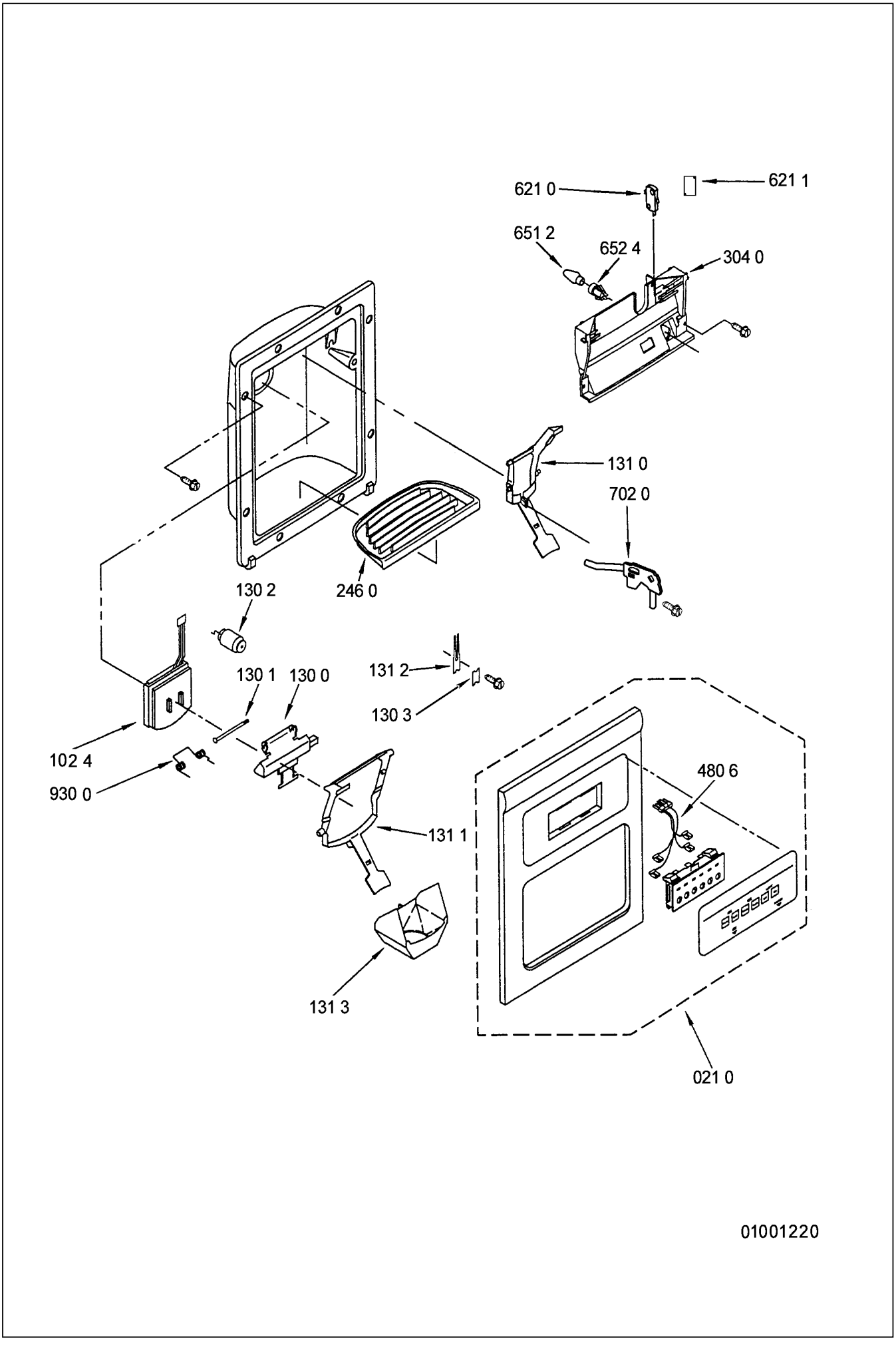

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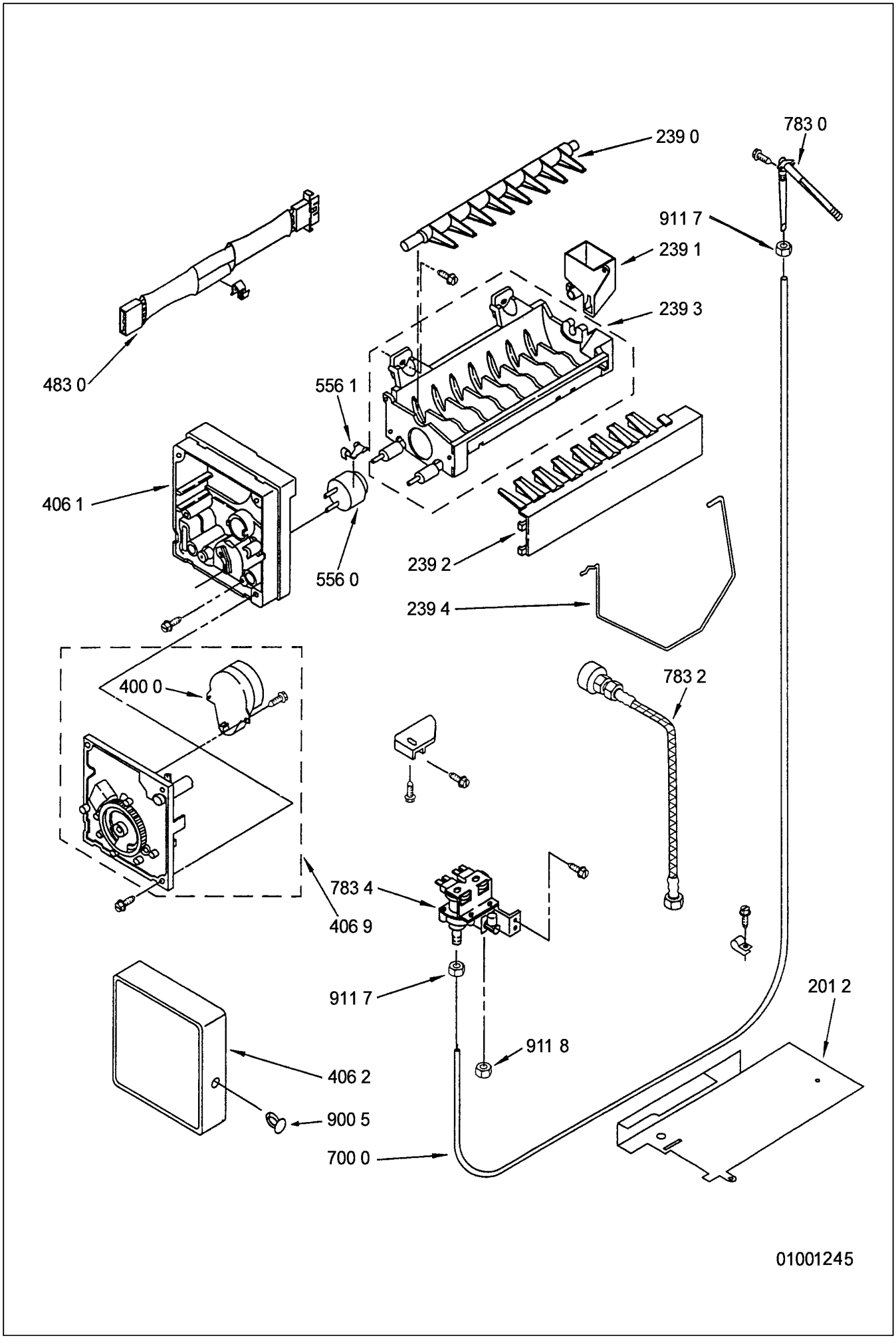

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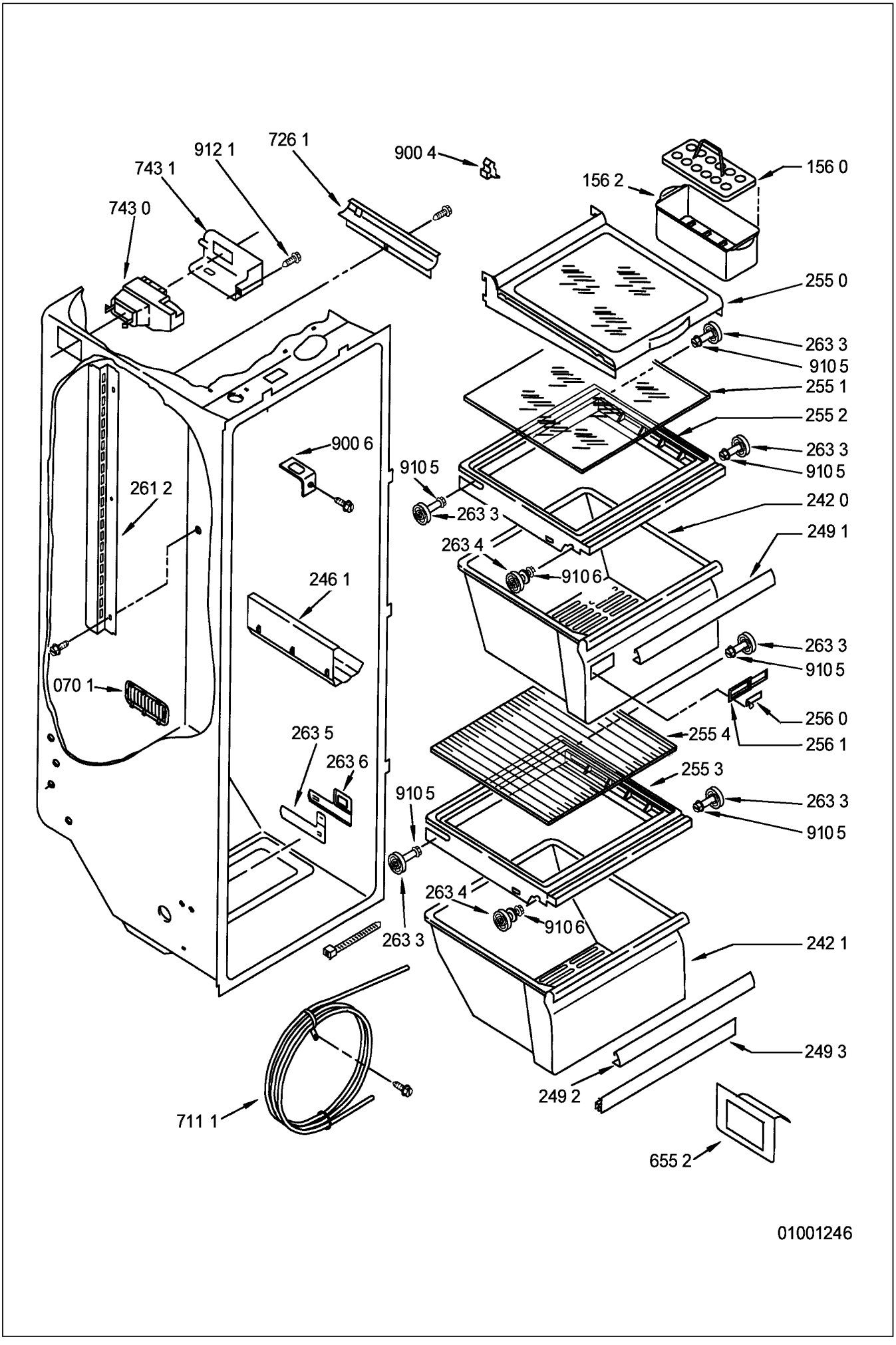

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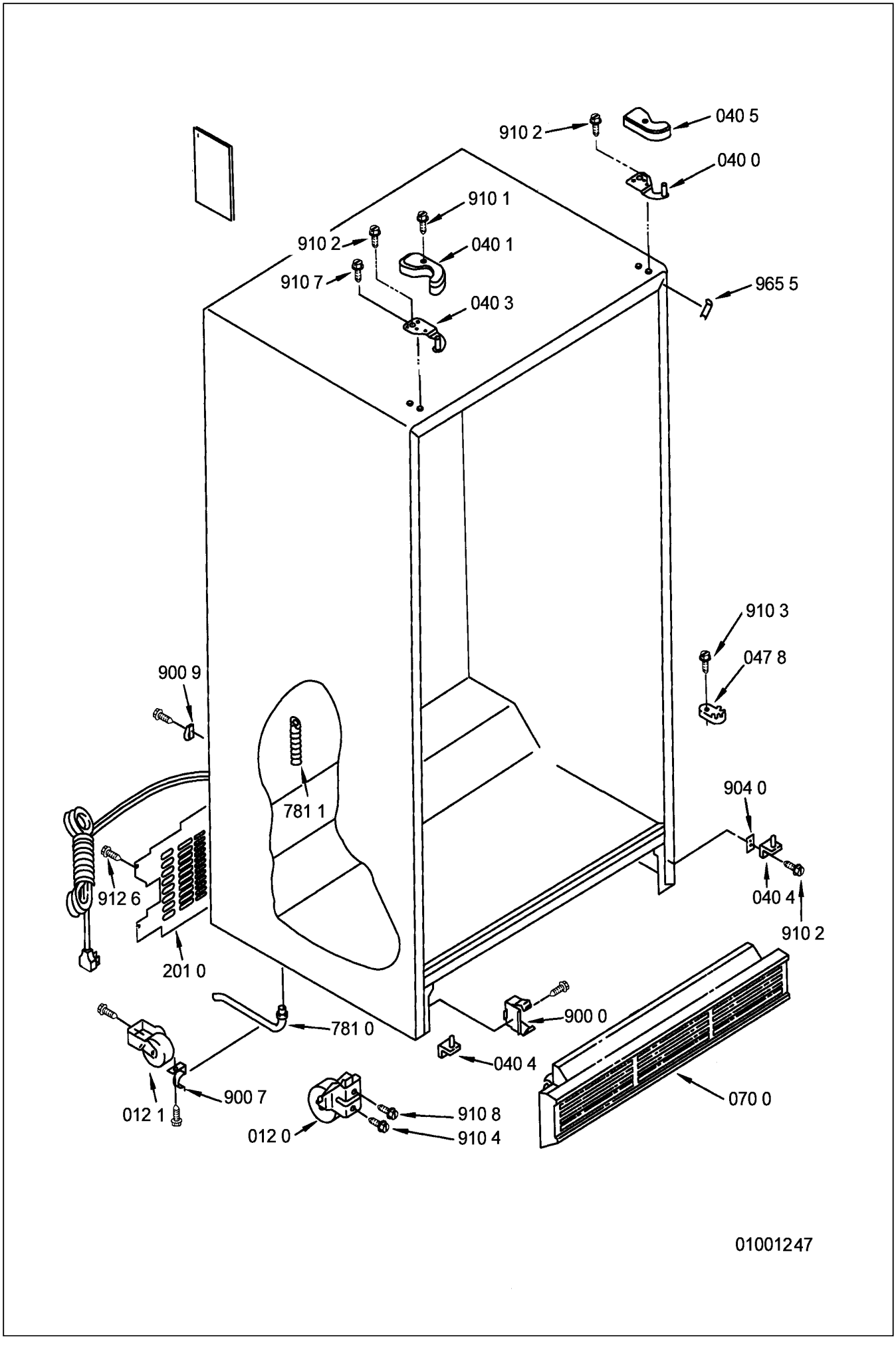
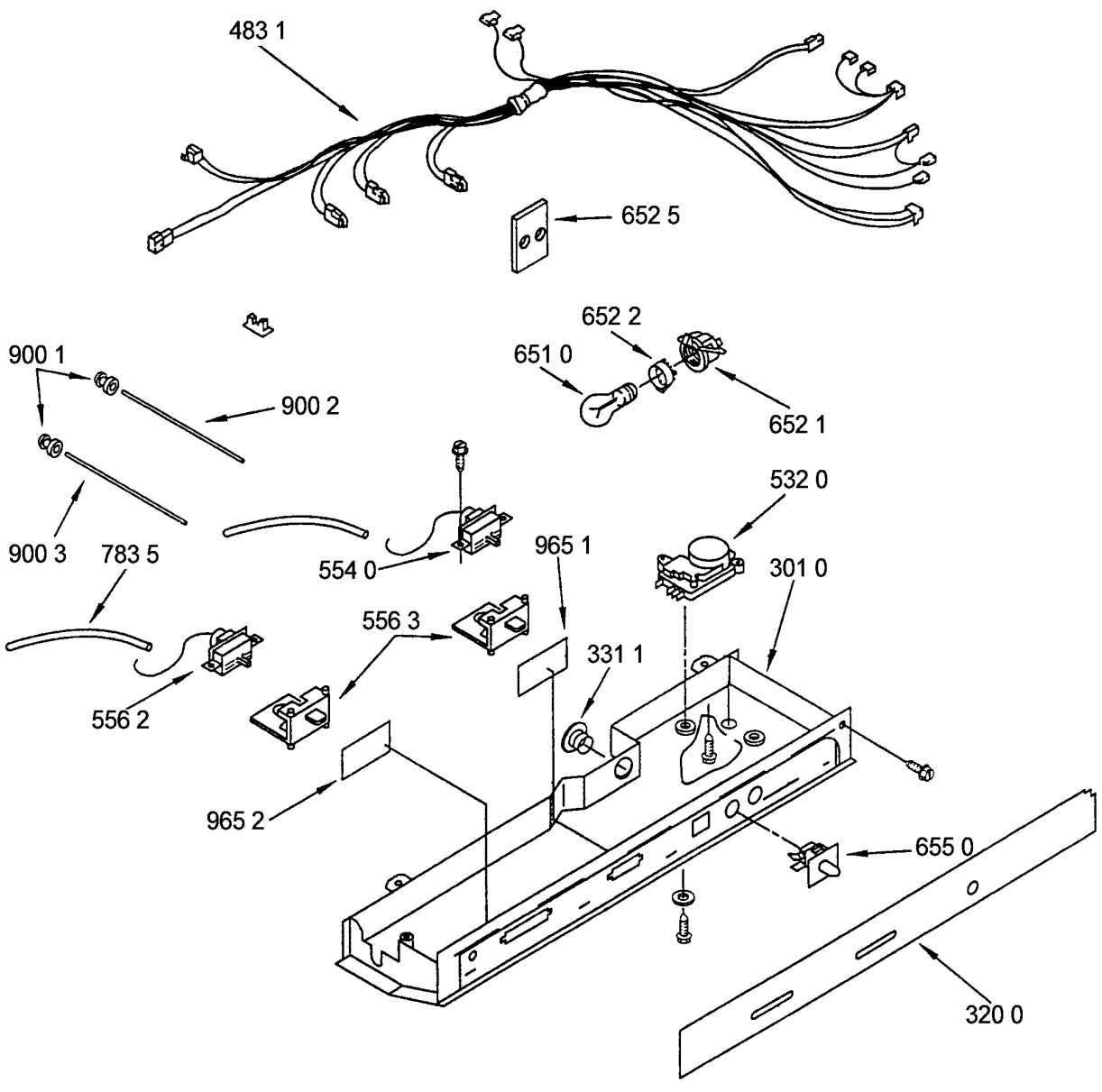


## Exploded view



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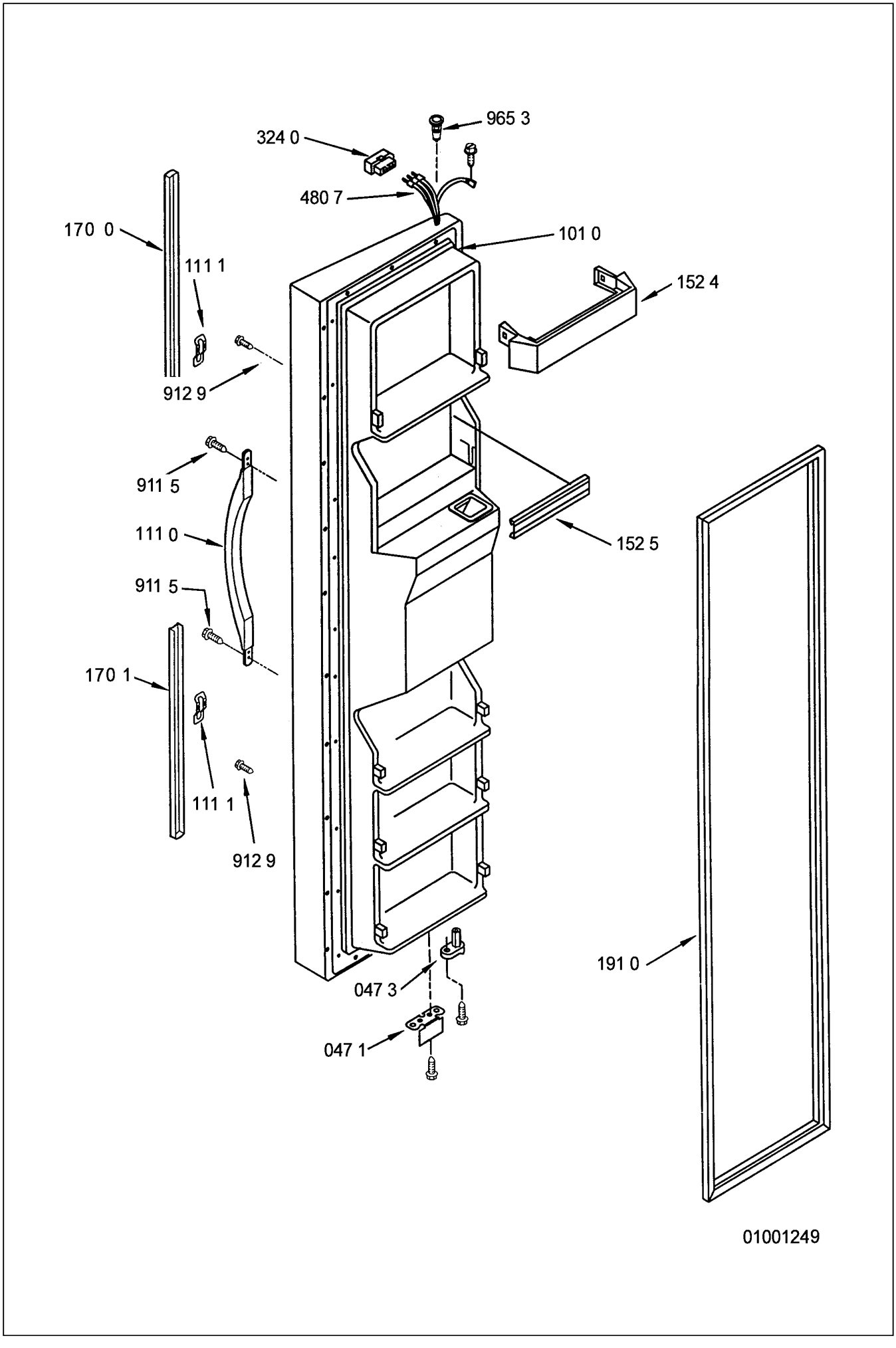

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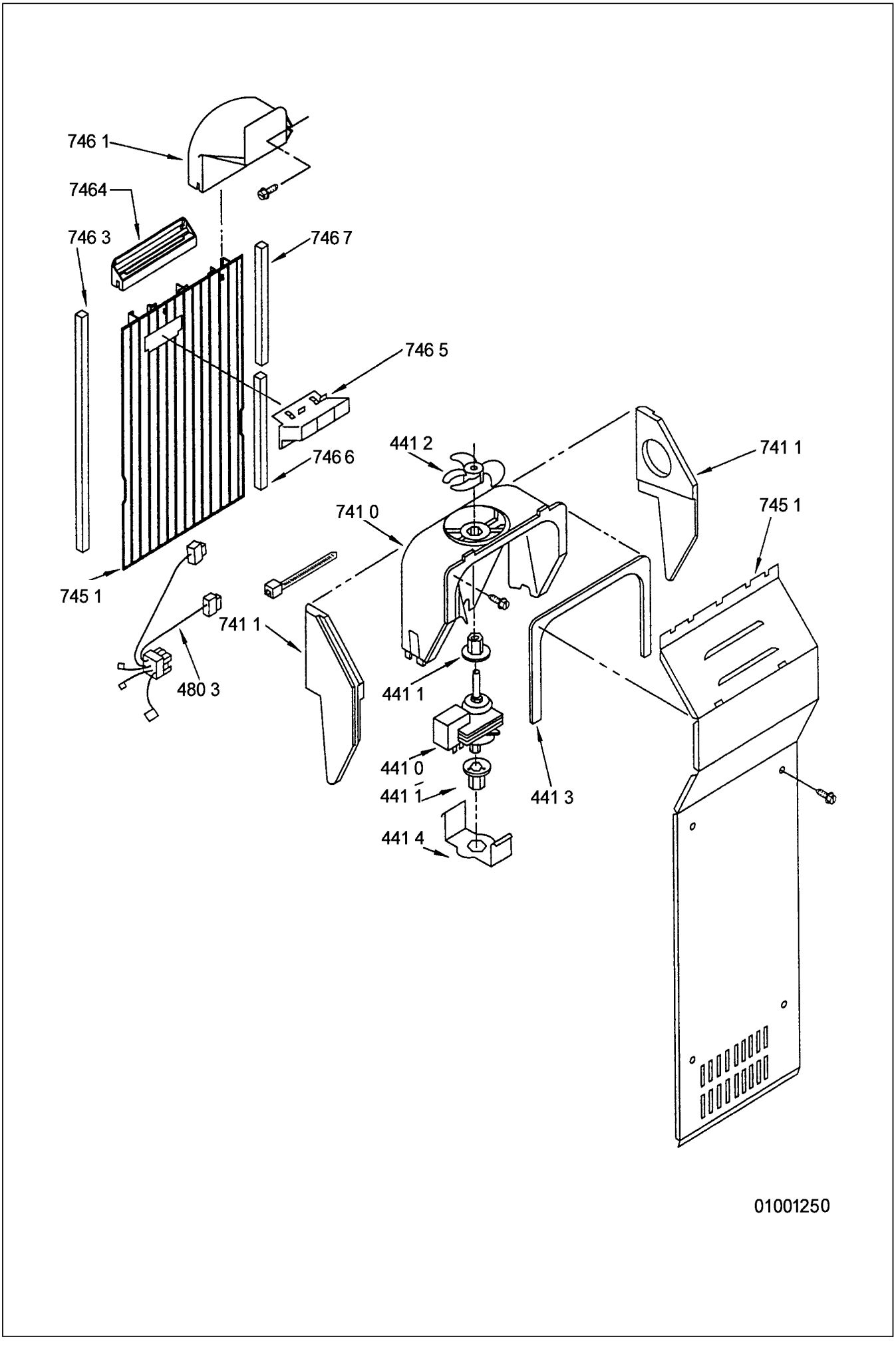

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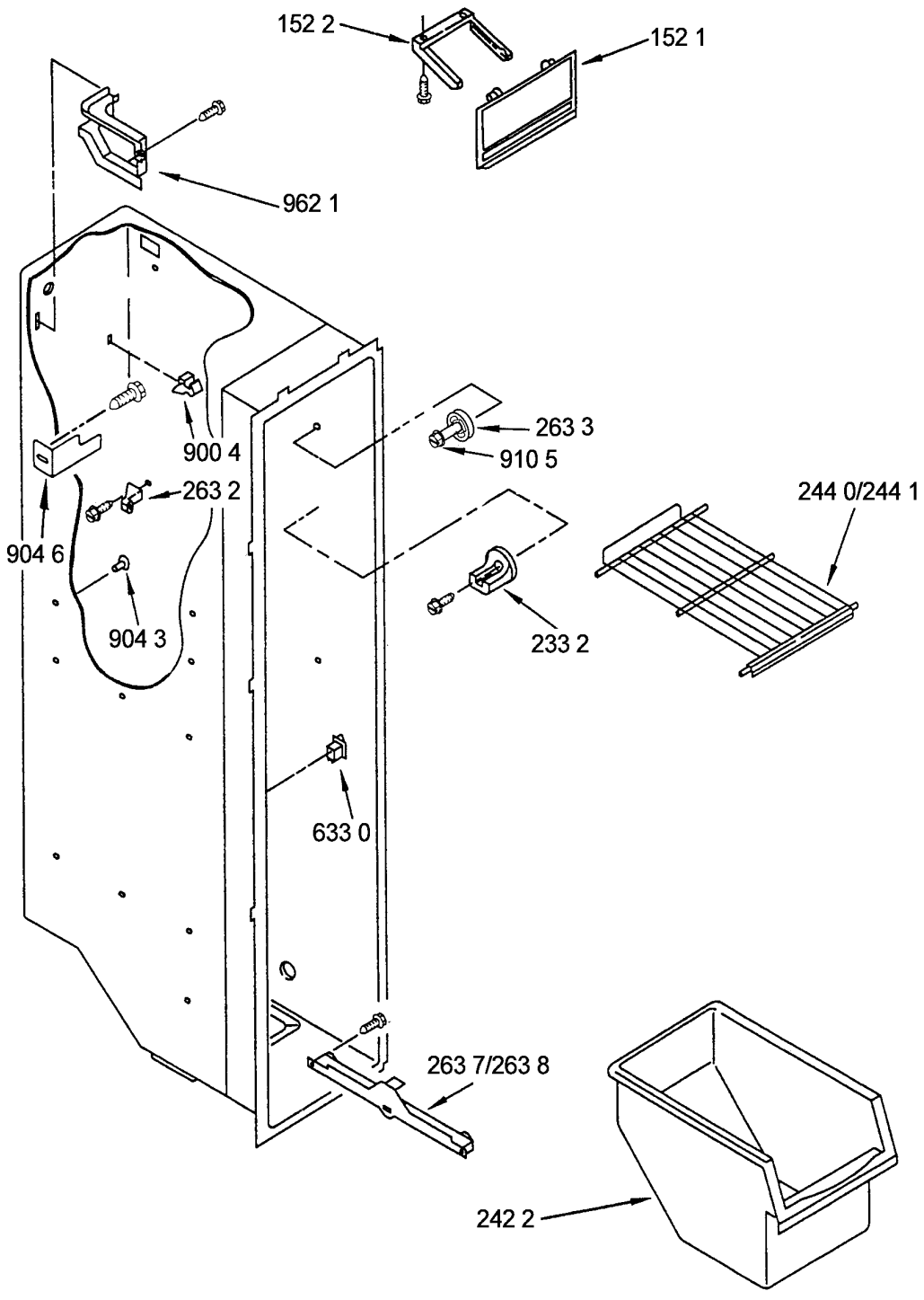
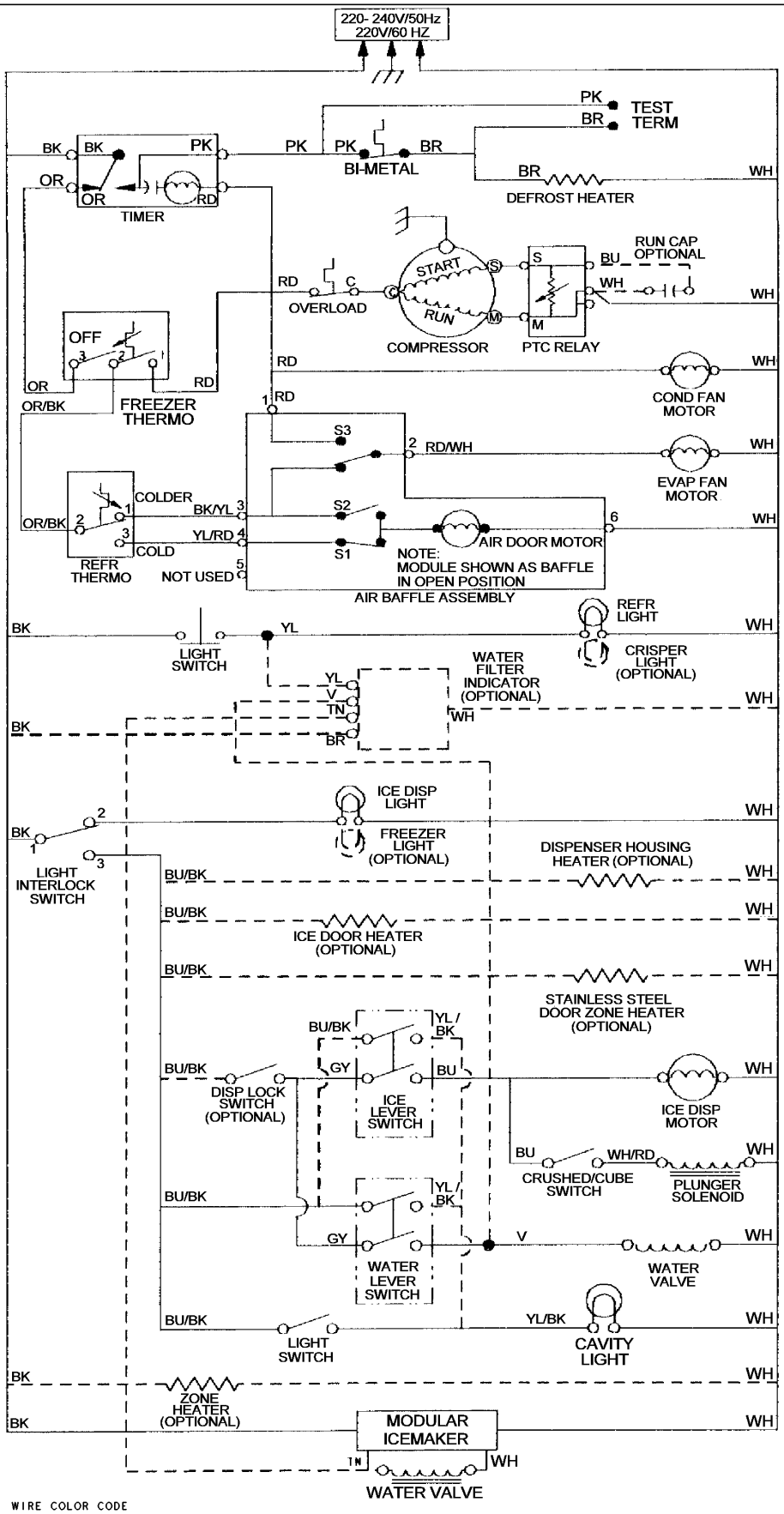


## Wiring diagram




WIRE COLOR CODE

| | | | |
|---|---|---|---|
| BU = BLUE | | | |
| BK = BLACK | | OR/BK = ORANGE/BLACK TRACER | |
| RD = RED | | YL/RD = YELLOW/RED TRACER | |
| WH = WHITE | | BU/BK = BLUE/BLACK TRACER | |
| YL = YELLOW | | WH/BU = WHITE/BLUE TRACER | |
| OR = ORANGE | | BK/YL = BLACK/YELLOW TRACER | |
| BR = BROWN | | WH/RD = WHITE/RED TRACER | |
| GY = GRAY | | GN/YL = GREEN/YELLOW TRACER | |
| PK = PINK | | BK/WH = BLACK/WHITE TRACER | |
| V = VIOLET | | YL/BK = YELLOW/BLACK TRACER | |
| TN = TAN | | RD/WH = RED/WHITE TRACER | |

NOTES:

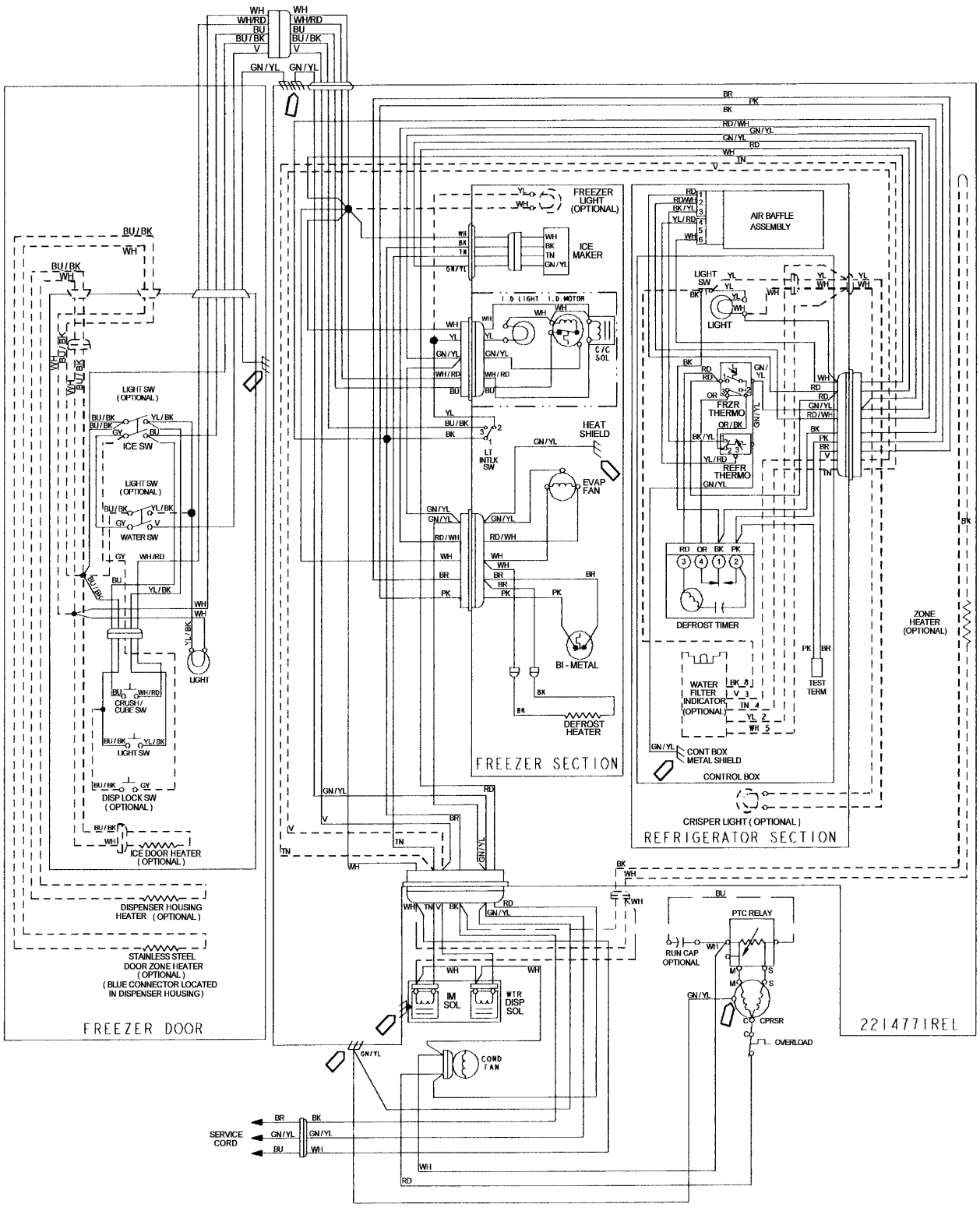
1. IM SOLENOID VALVE GROUNDED THROUGH MOUNTING.
2. EVAP COVER GROUNDED THROUGH HEAT SHIELD.

SYMBOL CODE

- : CONNECTOR - SCREW ON
- : CONNECTOR - CLOSED END
- : DISCONNECT TERMINAL
- : PERMANENT CONNECTION
- : PLUG CONNECTOR
- : GROUND (CHASSIS)
- = CONTROL CHARACTERISTIC

2214771-2

## Circuit diagram




WIRE COLOR CODE

| | | | |
|---|---|---|---|
| BU | = BLUE | | |
| BK | = BLACK | OR/BK | = ORANGE/BLACK TRACER |
| RD | = RED | YL/RD | = YELLOW/RED TRACER |
| WH | = WHITE | BU/BK | = BLUE/BLACK TRACER |
| YL | = YELLOW | WH/BU | = WHITE/BLUE TRACER |
| OR | = ORANGE | BK/YL | = BLACK/YELLOW TRACER |
| BR | = BROWN | WH/RD | = WHITE/RED TRACER |
| GY | = GRAY | GN/YL | = GREEN/YELLOW TRACER |
| PK | = PINK | BK/WH | = BLACK/WHITE TRACER |
| V | = VIOLET | YL/BK | = YELLOW/BLACK TRACER |
| TN | = TAN | RD/WH | = RED/WHITE TRACER |

SYMBOL CODE

- ◉ : CONNECTOR - SCREW ON
- ◎ : CONNECTOR - CLOSED END
- ○ : DISCONNECT TERMINAL
- ● : PERMANENT CONNECTION
- ⇢ : PLUG CONNECTOR
- ⏚ : GROUND (CHASSIS)
- ▱ : CONTROL CHARACTERISTIC

NOTES:

1. IM SOLENOID VALVE GROUNDED THROUGH MOUNTING.
2. EVAP COVER GROUNDED THROUGH HEAT SHIELD.

2214771-1

## Text/Legend

AUX (AUXILIARY SWITCH)
AIR BAFFLE
AIR DOOR MOTOR
BI-METAL
CAVITY LIGHT
COLD
COLDER
COMPRESSOR
COND. FAN MOTOR
CONTROL BOX
CONTROL BOX METAL SHIELD
CRISPER LIGHT
C / C SOL.
CRUSH. / CUBE SW
DEFROST HEATER
DEFROST TIMER
DISPENSER HOUSING HEATER
DISP.LOCK SWITCH
EVAP. FAN MOTOR
FREEZER DOOR
FREEZER LIGHT
FREEZER SECTION
FREEZER THERMOSTAT
HEAT SHIELD
ICE DOOR HEATER
ICE DISP. LIGHT (I.D. LIGHT)
ICE DISP. MOTOR (I.D. MOTOR)
ICE DISP. SWITCH (I.D. SW)
ICE LEVER SWITCH
ICE MAKER (I.M.)
I.M. SOLENOID VALVE
ICE SWITCH
LIGHT
LIGHT INTERLOCK SWITCH
LIGHT SWITCH
MODULAR ICE MAKER
NOT USED
OVERLOAD
PLUNGER SOLENOID
P.T.C. RELAY
REFR. LIGHT
REFRIGERATOR SECTION
REFR. THERM.
RIDGED WIRE
RUN
RUN.CAP.
SERVICE CORD
STAINLESS STEEL DOOR ZONE HEATER
START
TEST TERM
TIMER
WATER DISPENSER SOLENOID
WATER FILTER
WATER LEVER SWITCH
WATER SWITCH
WATER VALVE
ZONE HEATER

WIRE COLOR CODE

| | | |
|---|---|---|
| BK | = | BLACK |
| BL | = | BLUE |
| BR | = | BROWN |
| GN | = | GREEN |
| GY | = | GREY |
| OR | = | ORANGE |
| PK | = | PINK |
| PU | = | PURPLE |
| RD | = | RED |
| TN | = | TAN |
| WH | = | WHITE |
| YL | = | YELLOW |

| | | |
|---|---|---|
| BL / BK | = | BLUE / BLACK TRACER |
| BK / YL | = | BLACK / YELLOW TRACER |
| GN / YL | = | GREEN / YELLOW TRACER |
| OR / BK | = | ORANGE / BLACK TRACER |
| WH / BL | = | WHITE / BLUE TRACER |
| WH / RD | = | WHITE / RED TRACER |
| YL / RD | = | YELLOW / RED TRACER |

SYMBOL CODE

- CONTROL CHARACTERISTIC
- CONNECTOR SCREW ON
- CONNECTOR CLOSED END
- DISCONNECT TERMINAL
- PERMANENT CONNECTION
- PLUG CONNECTOR
- GROUND(CHASSIS)

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